SUTRON

User Manual

Servicetool

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SUTRON ELECTRONIC GMBH

Version	Date	Modifications
1	05.04.2005	First edition

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1 Important Notes

1.1 Symbols

The symbols in this manual are used to draw your attention on notes and dangers.

1.1.1 General Symbols

Danger
This symbol is used to refer to instructions which, if ignored or not carefully followed could result in personal injury.

Note
This symbol indicates application tips or supplementary notes.

Reference to source of information
This symbol refers to detailed sources of information on the current topic.

1.1.2 Specific Symbols

The following symbols indicate specific dangers which could result in damage to equipment or personal injury or even up to the death of the operator.

Danger - Electric Shock

Danger - Corrosive

Danger - Toxic

Danger - Explosive

Danger - Fire

Danger - Infrared Light

Danger - Electrostatic Charge

1.2 Safety Notes

- Read this manual carefully before using the operating device. Keep this manual in a place where it is always accessible to all users.
- Proper transportation, handling and storage, placement and installation of this product are prerequisites for its subsequent flawless and safe operation.
- This user manual contains the most important information for the safe operation of the device.
- The user manual, in particular the safety notes, must be observed by all personnel working with the device.
- Observe the accident prevention rules and regulations that apply to the operating site.
- Installation and operation must only be carried out by qualified and trained personnel.

1.3 Intended Use

- The device is designed for use in the industry.
- The device is state-of-the art and has been built to the latest standard safety requirements. However, dangerous situations or damage to the machine itself or other property can arise from the use of this device.
- The device fulfills the requirements of the EMC directives and harmonized European standards. Any modifications to the system can influence the EMC behavior.

1.4 Target Group

All configuration and programming work in connection with the automation system must be performed by trained personnel only (e.g. qualified electricians, electrical engineers).

The configuration and programming personnel must be familiar with the safety concepts of automation technology.

2 Configuring with the Service Tool

The Service tool provides a number of configuration options allowing you to specify settings for the operating device. The range of options varies depending on the operating mode (Development or Standard).

To open the service tool, press the following button:

Figure 2-1 Key "Service tool"

The following options are available in the **Standard** operating mode:

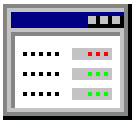
- Operating Mode
- Date/Time
- System
- Password
- Systeminfo
- Network
- Save
- Exit

The following options are available in the **Development** operating mode:

- Operating Mode
- Date/Time
- System
- Password
- Systeminfo
- Network
- Input Panel
- Display
- Stylus
- Processes
- Save
- Exit

2.1 Operating Mode

With **Operating Mode**, you set the operating mode for the operating device. For this purpose, press the following icon:



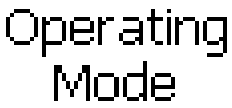


Figure 2-2 Service tool, Operating Mode

The **Operating Mode** dialog appears.

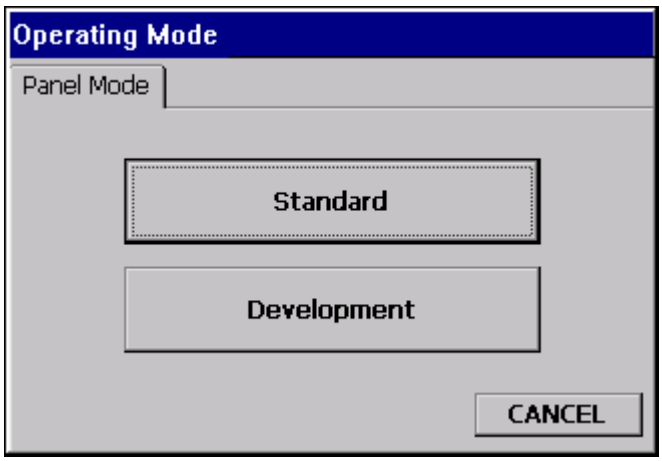


Figure 2-3 Dialog "Operating Mode"

Press **Standard** to switch to the operating mode "Standard". In this operating mode, you use the operating device for the purpose of operator control and monitoring or for control and visualization. When the operating device is set to this operating mode, it starts up automatically with the programmed application.

Press **Development** to switch to the operating mode "Development". In this operating mode, you use the operating device to specify settings on the operating system level.

The operating device must be rebooted for either of these operating modes to become active. You will be prompted to do so by a message. Click **OK** to confirm this message.

2.2 Date/Time

With **Date/Time**, you set the current date and time. For this purpose, press the following icon:

Date/Time

Figure 2-4 Service tool, Date/Time

The **Date/Time Properties** dialog opens.

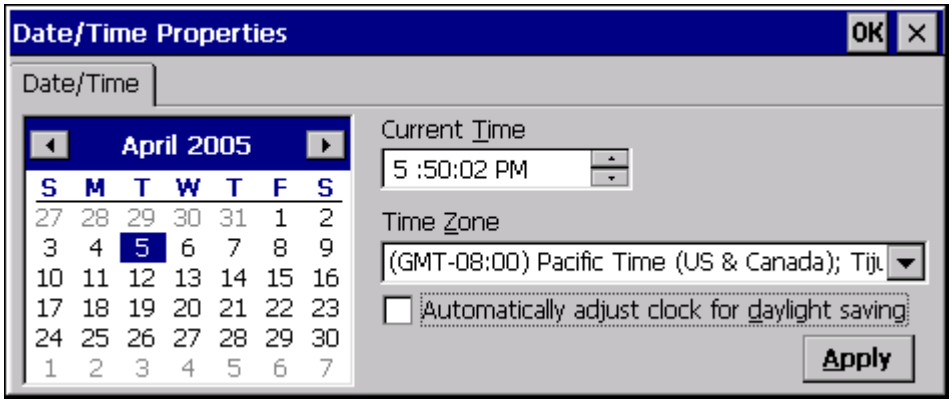

Date/Time Properties
OK
Date/Time
April 2005
S M T W T F S
27 28 29 30 31 1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
1 2 3 4 5 6 7
Current Time
5 :50:02 PM
Time Zone
(GMT-08:00) Pacific Time (US & Canada); Tiju
Automatically adjust clock for daylight saving
Apply

Figure 2-5 Dialog "Date/Time Properties"

Use the following procedure to change the time setting:

1. Press the hour, minute or the second.
2. Press the Up or Down buttons to change the setting.
3. Select the **Automatically adjust clock for daylight saving** check box to change to the daylight savings time.

Use the following procedure to change the date setting:

1. Press the Arrow Right or Arrow Left to set the month and the year.
2. Press a number for the day to set the date of the day.

Use the following procedure to change the time zone setting:

1. Press the Arrow Down to open the time zone list.
2. Press the Arrow Up or Arrow Down to navigate to the desired time zone.
3. Press the name of the desired time zone to select it.
4. Confirm with **Apply**.

2.3 System

With **System**, you call up the system settings for the following categories: General, Memory, Device Name and Copyrights. To do so, press the following icon:

Figure 2-6 Service tool, System

The **System Properties** dialog opens to the **General** tab.

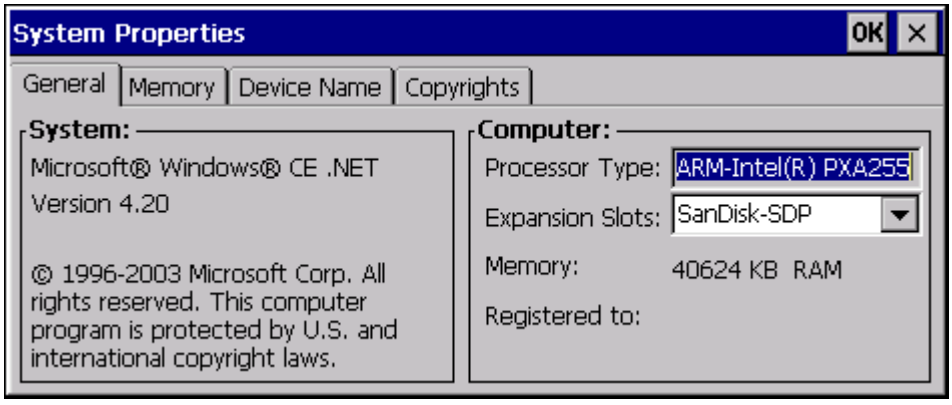


Figure 2-7 System Properties, "General" tab

The **General** tab gives you information on the operating system, processor type, storage card type and the memory size of the RAM.

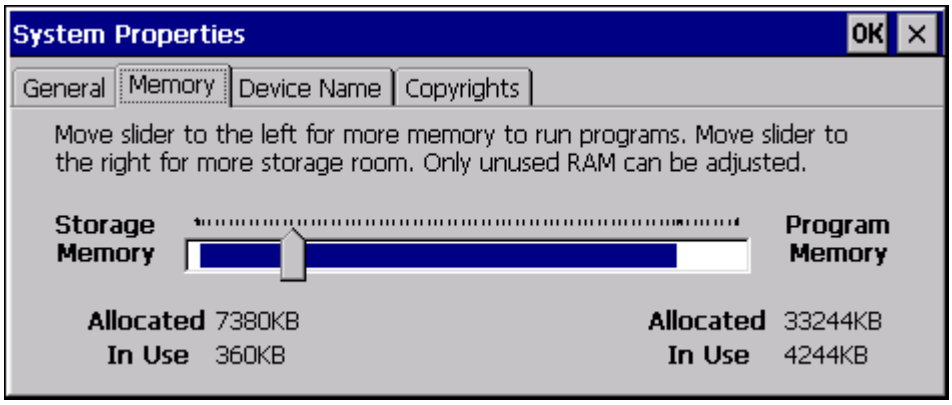


Figure 2-8 System Properties, "Memory" tab

The **Memory** tab gives you information on how the available memory is distributed.You can use the slider to change the current setting.

Figure 2-9 System Properties, "Device Name" tab

The **Device Name** tab provides you the name and a description of the operating device. You can change the name and description to suit your individual requirements.

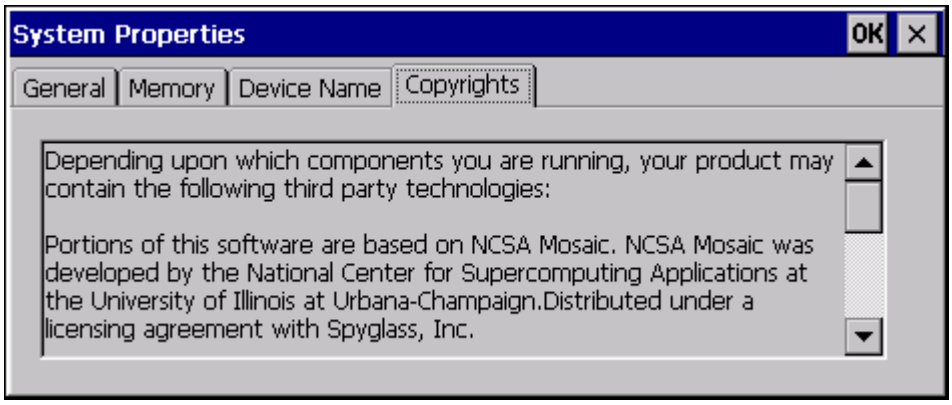

System Properties
OK
General
Memory
Device Name
Copyrights
Depending upon which components you are running, your product may contain the following third party technologies:
Portions of this software are based on NCSA Mosaic. NCSA Mosaic was developed by the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign.Distributed under a licensing agreement with Spyglass, Inc.

Figure 2-10 System Properties, "Copyrights" tab

The **Copyrights** tab contains trademark and copyright information for each product used by the current operating device.

2.4 Password

Password brings you to the password settings. For this purpose, press the following icon:

Figure 2-11 Service tool, Password

The **Password Properties** dialog appears.

Figure 2-12 Dialog "Password Properties"

When working in the Standard operating mode, the password protection is activated when you attempt to call up the Service tool or the task manager while the application is running.

Use the following procedure to set up a password:

1. Enter a password into the **Password** field. Only asterisks are displayed as you type in the password!
2. Enter the same password again in the **Confirm password** field.
3. To activate the password protection, select the **At Power ON** check box.
4. Confirm with **OK**.

2.5 Systeminfo

With the **Systeminfo** function, you display device data and device status information.

For this purpose, press the following icon:

Systeminfo

Figure 2-13 Service tool, System Info

The **Device Data** tab of the "Systeminfo" dialog appears.

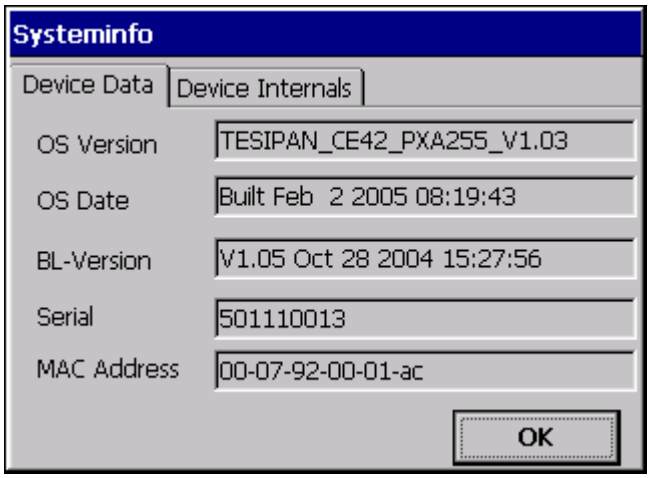


Figure 2-14 "Device Data" tab of the "Systeminfo dialog

The **Device Data** tab is displayed by default.

This tab contains the following information:

- OS Version = Version of the Kernel operating system
- OS Date = Creation date of the Kernel operating system
- BL-Version = Version of the bootloader
- Serial = Serial number of the operating device
- MAC Address = MAC address of the operating device

Press the **Device Internals** tab to display additional information.

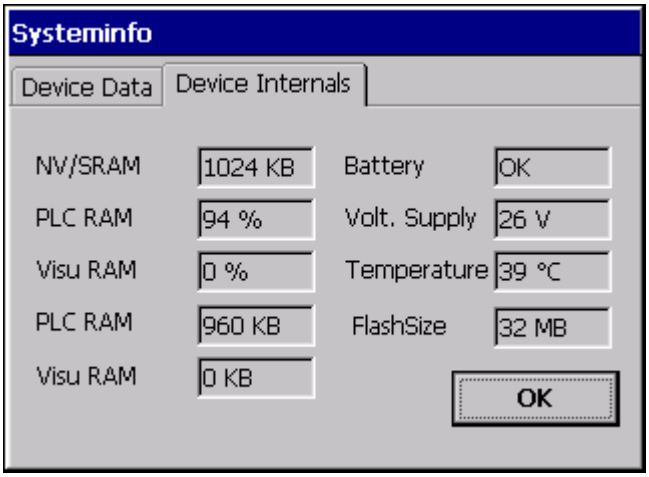


Figure 2-15 "Device Internals" tab of the "Systeminfo" dialog

This tab contains the following information:

– Size of the NV/SRAM memory
– Usage of the PLC RAM memory
– Usage of the Visu RAM memory
– Size of the PLC RAM memory
– Size of the Visu RAM memory
– State of the battery
– Supply voltage level
– Temperature of the operating device
– Size of the internal Flash memory

2.6 Network

With the **Network** function, you display the window that contains the currently set up networks. For this purpose, press the following icon:

Network

Figure 2-16 Service tool, Network

The folder with the network connections appears.

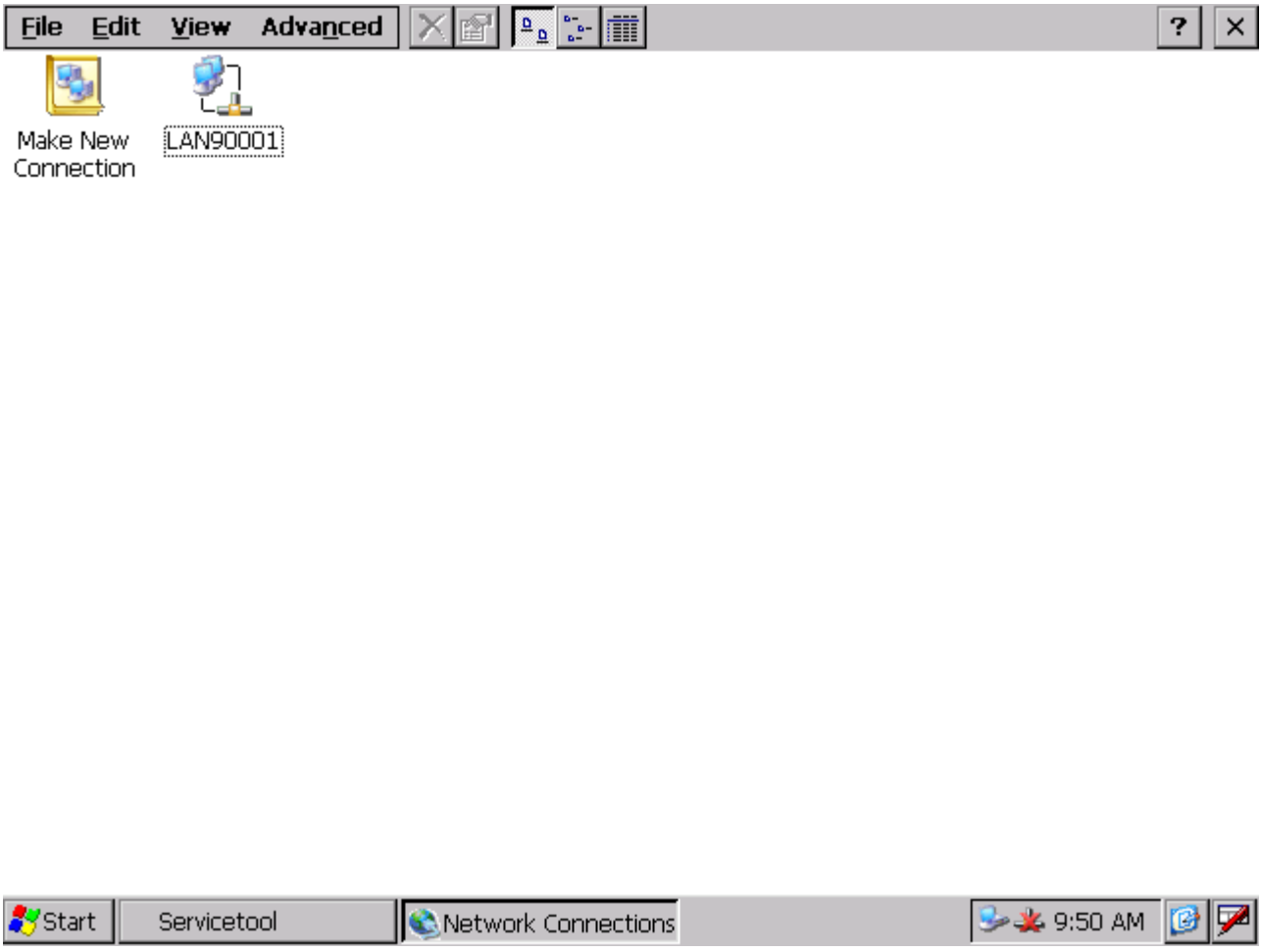


Figure 2-17 Folder with network connections

2.6.1 Wizard for Setting up a New Connection

Use the **Make New Connection** wizard to set up a new connection. For this purpose, press the following icon:

Make New Connection

Figure 2-18 Network, Make New Connection

The wizard opens to the **Make New Connection** dialog. You can use the **Next >** and **< Back** button to navigate to the next or previous step of the wizard.

2.6.2 Setting up the Network Adapter

The network connection **LAN9001** is already defined by default. The operating device is equipped with a permanently built-in network adapter which is not replaceable.

Use the following procedure to configure the network adapter:

1. Press the **LAN9001** icon.
2. Select **Properties** from the **File** menu.

The dialog containing the adapter settings opens.

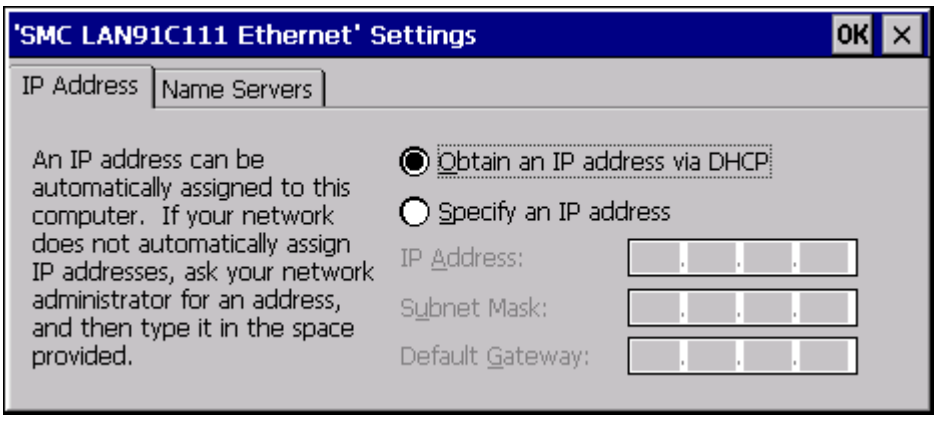

'SMC LAN91C111 Ethernet' Settings
OK
IP Address
Name Servers
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space provided.
Obtain an IP address via DHCP
Specify an IP address
IP Address:
Subnet Mask:
Default Gateway:

Figure 2-19 Dialog Settings, "IP Address" tab

The **IP Address** tab is displayed by default.

3. Specify whether you want the device to be dynamically assigned an IP address by the DHCP service.
4. Specify at least one fixed IP address and one subnet mask if you can not use DHCP.
5. Now open the **Name Servers** tab.

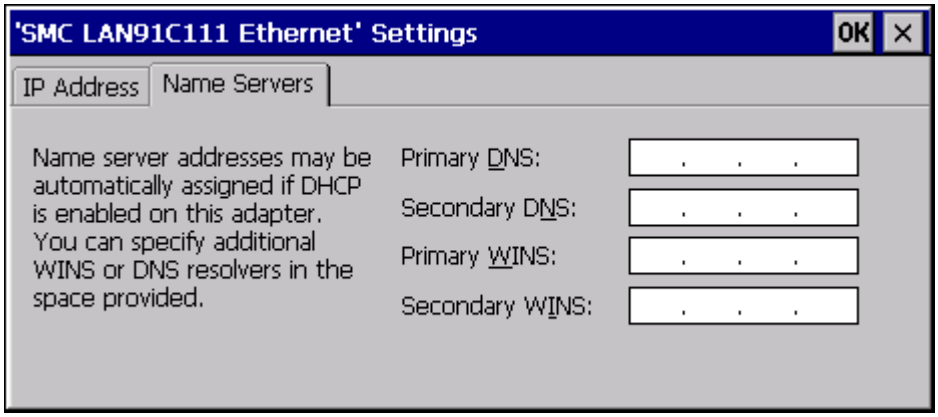

'SMC LAN91C111 Ethernet' Settings
OK
IP Address
Name Servers
Name server addresses may be automatically assigned if DHCP is enabled on this adapter. You can specify additional WINS or DNS resolvers in the space provided.
Primary DNS:
Secondary DNS:
Primary WINS:
Secondary WINS:

Figure 2-20 "Name Servers" tab of the "Network Configuration" dialog

6. In this tab, specify the IP addresses for DNS and WINS servers if you do not have the IP addresses assigned dynamically by the DHCP service.
7. Confirm with **OK**.

Save the settings by pressing the **Save** icon!
Siehe Kapitel „Save“ auf Seite 2-17.

The device must be rebooted for the IP address settings to take effect!

2.7 Input Panel

With the **Input Panel** function, you call up the software keyboard settings.For this purpose, press the following icon:

Input Panel

Figure 2-21 Service tool, Input Panel

The **Input Panel Properties** dialog appears.

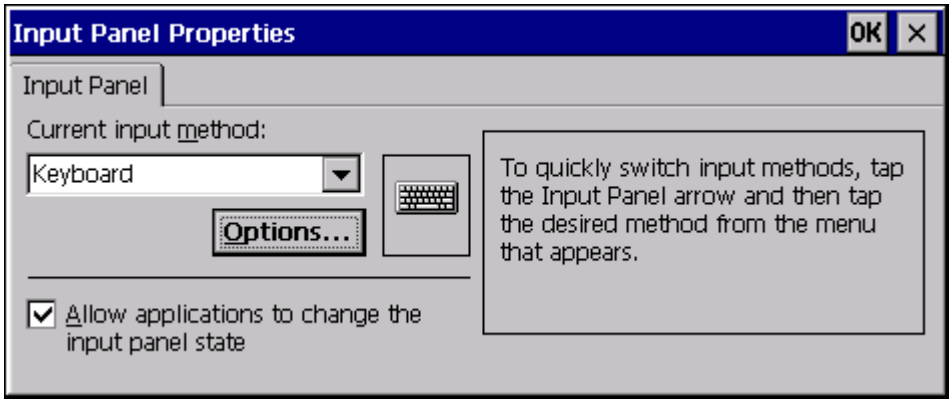

Input Panel Properties
OK
Input Panel
Current input method:
Keyboard
Options...
To quickly switch input methods, tap the Input Panel arrow and then tap the desired method from the menu that appears.
Allow applications to change the input panel state

Figure 2-22 Dialog "Input Panel Properties"

The **Current input method** field shows the currently selected input device. To change the current selection, press the **Arrow Down** button and select an option from the list.

Use the following procedure to change the software keyboard settings:

1. Press the **Options** button.

The **Soft Keyboard Options** dialog opens.

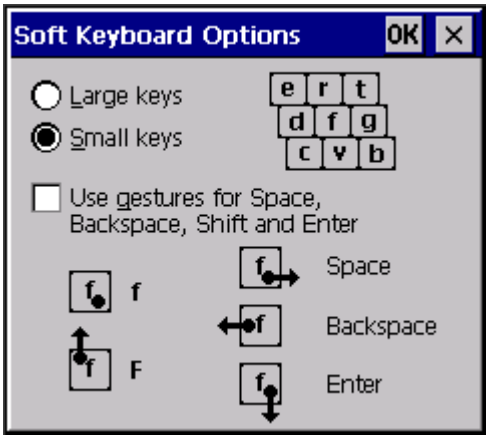


Figure 2-23 Dialog "Soft Keyboard Options"

2. Select the **Large keys** radio button to use large keys for the keyboard.
3. Select the **Small keys** radio button to use small keys for the keyboard.
4. Select the **Use gestures** check box to use gestures to carry out the functions of the keys Space, Backspace, Enter and Shift.

To enter the character assigned to a key, you then need to press the key as normal.

To enter the character of the key assigned to the **Shift** function, press the key and make a sweeping gesture upwards.

To enter a **blank**, press any key and make a sweeping gesture to the right.

To move one digit **to the left** and to **delete** the digit in the process, press any key and make a sweeping gesture to the left.

To actuate the **Enter** key, press any key and make a sweeping gesture downwards.

5. Confirm with **OK**.

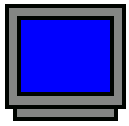
You are returned to the **Input Panel Properties** dialog.

6. Confirm with **OK**.

Save the settings by pressing the **Save** icon!
Siehe Kapitel „Save“ auf Seite 2-17.

2.8 Display

With the **Display** function, you bring up the brightness and contrast settings. For this purpose, press the following icon:



Display

Figure 2-24 Service tool, Display

The **Brightness tab of the Display dialog** appears.

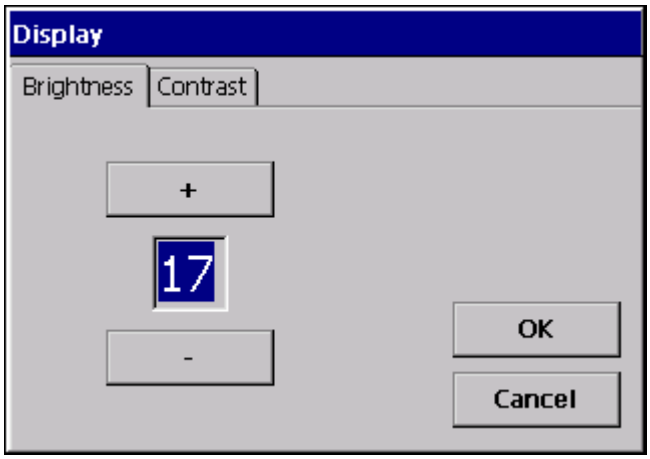


Figure 2-25 Brightness" tab of the "Display" dialog

Use the following procedure to change the brightness setting:

1. Press the **+** button to increase the brightness.
2. Press the **-** button to decrease the brightness.
3. Confirm with **OK**.

Use the following procedure to change the contrast setting:

1. Open the **Contrast** tab.

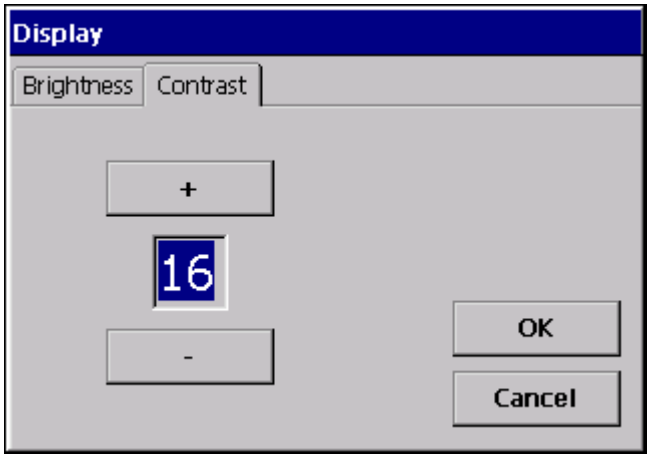


Figure 2-26 "Contrast" tab of the "Display" dialog

2. Press the **+** button to increase the contrast.
3. Press the **-** button to decrease the contrast.
4. Confirm with **OK**.

Save the settings by pressing the **Save** icon!
Siehe Kapitel „Save“ auf Seite 2-17.

2.9 Stylus

With **Stylus**, you call up the double-click and touch calibration settings. For this purpose, press the following icon:

Figure 2-27 Service tool, Stylus

The **Double-Tap** tab of the **Stylus Properties** dialog opens.

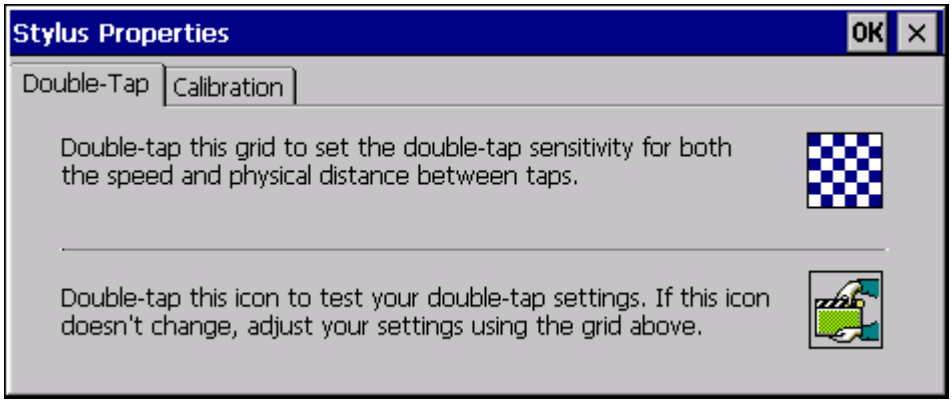

Stylus Properties
OK
Double-Tap
Calibration
Double-tap this grid to set the double-tap sensitivity for both the speed and physical distance between taps.
Double-tap this icon to test your double-tap settings. If this icon doesn't change, adjust your settings using the grid above.

Figure 2-28 "Double-Tap" tab of the "Stylus Properties" dialog

Testing and specifying the double-click settings:

Test the double-click settings by double-pressing the test icon.

Modify the double-click settings by double-pressing the checkered pattern. The speed and physical distance between the two taps are used as the new double-click settings.

Calibrating the touch screen:

1. Open the **Calibration** tab.

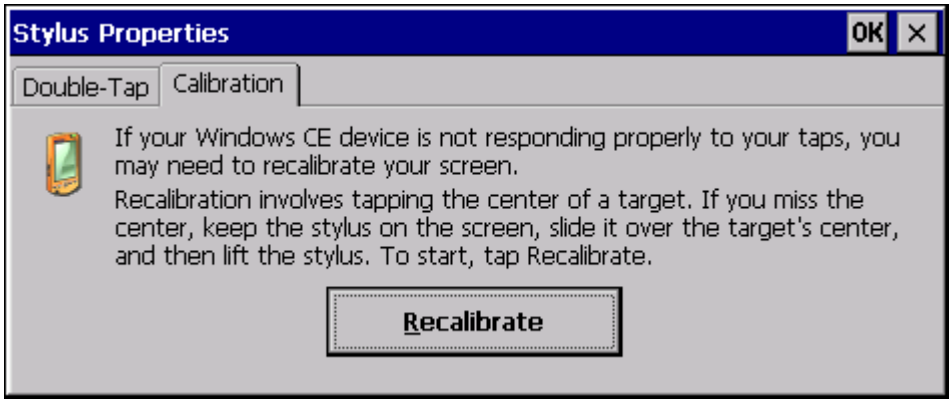

Stylus Properties
OK
Double-Tap
Calibration
If your Windows CE device is not responding properly to your taps, you may need to recalibrate your screen.
Recalibration involves tapping the center of a target. If you miss the center, keep the stylus on the screen, slide it over the target's center, and then lift the stylus. To start, tap Recalibrate.
Recalibrate

Figure 2-29 "Calibration" tab of the "Stylus properties" dialog

2. Press the **Recalibrate** button to start the calibration sequence.
3. Tap each cross-hair at its exact center and keep pressing until the cross-hair changes its position.

The calibration process is complete once all cross-hairs have disappeared from the screen. Now you still need to save the changes. The device waits 30 seconds for you to tap the touch screen.If you do not tap the touch screen within this time period, the new settings are not applied. In this case, the device continues to use the old settings.

Save the settings by pressing the **Save** icon!
Siehe Kapitel „Save“ auf Seite 2-17.

2.10 Processes

With the **Processes** tab, you display an overview of the current processes. For this purpose, press the following icon:

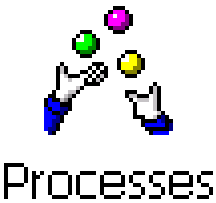


Figure 2-30 Service tool, Processes

The **ProcessViewer** window appears.

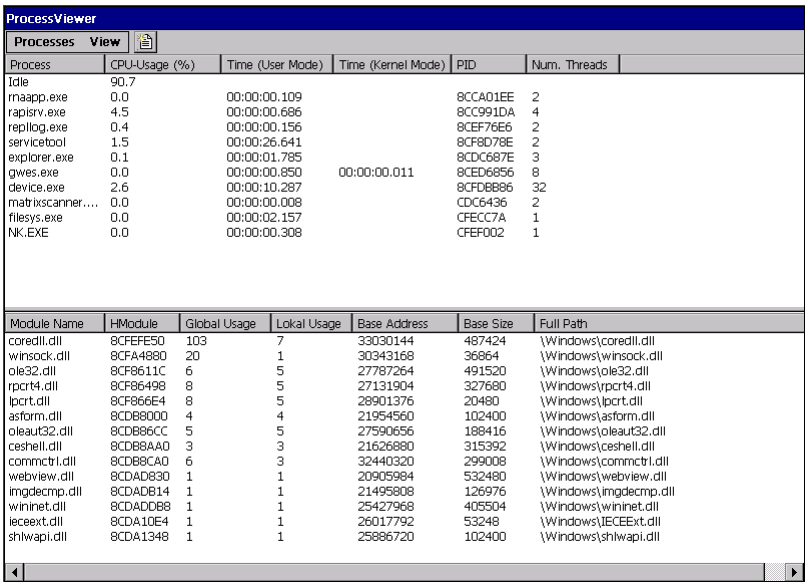

ProcessViewer
Processes View
Process CPU-Usage (%) Time (User Mode) Time (Kernel Mode) PID Num. Threads
Idle 90.7
rnaapp.exe 0.0 00:00:00.109 8CCA01EE 2
rapisrv.exe 4.5 00:00:00.686 8CC991DA 4
replog.exe 0.4 00:00:00.156 8CEF76E6 2
servicetool 1.5 00:00:26.641 8CF8D78E 2
explorer.exe 0.1 00:00:01.785 8CDC687E 3
gwes.exe 0.0 00:00:00.850 00:00:00.011 8CED6856 8
device.exe 2.6 00:00:10.287 8CFDBB86 32
matrixscanner.... 0.0 00:00:00.008 CDC6436 2
filesys.exe 0.0 00:00:02.157 CFECC7A 1
NK.EXE 0.0 00:00:00.308 CFEF002 1
Module Name HModule Global Usage Lokal Usage Base Address Base Size Full Path
coredll.dll 8CFEFE50 103 7 33030144 487424 \Windows\coredll.dll
winsock.dll 8CFA4880 20 1 30343168 36864 \Windows\winsock.dll
ole32.dll 8CF8611C 6 5 27787264 491520 \Windows\ole32.dll
rpcrt4.dll 8CF86498 8 5 27131904 327680 \Windows\rpcrt4.dll
lpcrt.dll 8CF866E4 8 5 28901376 20480 \Windows\lpcrt.dll
asform.dll 8CDB8000 4 4 21954560 102400 \Windows\asform.dll
oleaut32.dll 8CDB86CC 5 5 27590656 188416 \Windows\oleaut32.dll
ceshell.dll 8CDB8AA0 3 3 21626880 315392 \Windows\ceshell.dll
commctrl.dll 8CDB8CA0 6 3 32440320 299008 \Windows\commctrl.dll
webview.dll 8CDAD830 1 1 20905984 532480 \Windows\webview.dll
imgdecmp.dll 8CDADB14 1 1 21495808 126976 \Windows\imgdecmp.dll
wininet.dll 8CDADDB8 1 1 25427968 405504 \Windows\wininet.dll
ieceext.dll 8CDA10E4 1 1 26017792 53248 \Windows\IECEExt.dll
shlwapi.dll 8CDA1348 1 1 25886720 102400 \Windows\shlwapi.dll

Figure 2-31 Window "ProcessViewer"

The process list shows all current processes and either the modules or threads.

The window displays all processes currently running.

Use the following procedure to refresh the screen displaying the processes:

1. Open the **Processes**menu.
2. Select **Refresh**.

You can also refresh the screen by pressing the **Refresh** icon.

Figure 2-32 "Refresh" icon

Use the following procedure to have the screen refreshed automatically:

1. Open the **Processes**menu.
2. Select **Update (auto.)**.

A dot indicates that the **Update (auto.)** is selected.

Use the following procedure to select the module display:

1. Open the **View** menu.
2. Select **Modules**.

A dot indicates that the menu item **Modules** is selected.

Use the following procedure to select the thread display:

Open the **View** menu.

Select **Threads**.

A dot indicates that the menu item **Threads** is selected.

Use the following procedure to exit the process list:

1. Open the **Processes**menu.
2. Select **Exit**.

2.11 Save

With the **Save** function, you save the current settings in the registry. For this purpose, press the following icon:

Save

Figure 2-33 Service tool, Save

A message is displayed while the current settings are saved in the registry.

2.12 Exit

With the **Exit** function, you exit the Service tool. For this purpose, press the following icon:

Exit

Figure 2-34 Service tool, Exit

In the dialog that appears, select whether you want the current settings to be saved in the registry or whether you want the operating device to exit the service tool without saving the settings.

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